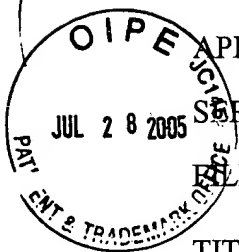


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICANT: Aravind Sitaraman et al.
SERIAL NO.: 09/802,410
FILED: March 9, 2001
TITLE: Dynamic Multi-Hop Ingress to Egress L2TP Tunnel Mapping
EXAMINER: Phirin Sam (Tel. No.: (571) 272-3082)
(Fax No.: (703) 872-9306)
ART UNIT: 2661

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP: RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date:

7/26/2005

Name:

Beatrice Orozco
Beatrice Orozco

MAIL STOP: RCE
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached (unless the blanket waiver referred to below applies), may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§ 1.56, 1.97 and 1.98. The Examiner is requested to review, consider and document each such item in the official record of this application.

Note: If this box ☐ is checked, this case was filed after June 30, 2003 and qualifies for the blanket waiver of deposit of copies of U.S. Patents and U.S. Patent Application Publications in accordance with the written waiver of 37 CFR §1.98 (a)(2)(i) dated July 11, 2003. Accordingly, such copies are not attached.

This Information Disclosure Statement under 37 CFR §§ 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pursuant to **(CHECK ONE BOX)**:



37 C.F.R. § 1.97(b).

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
- (3) before the mailing date of a first office action on the merits; **or**
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114, **whichever event occurs last.**

Accordingly, this information disclosure statement requires no fee and no certification.



37 C.F.R. § 1.97(c).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97(b), but **before** the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; **or**
- (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); **or**
- (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).



37 C.F.R. § 1.97(d).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); **and**
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. **To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.**

II

Fees Due (**CHECK ONE BOX**):

- ☒ No fee is due.
- ☐ The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).

III

Certification (**CHECK ONE BOX**):

- ☒ No certification is necessary.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies:
That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:
No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this information disclosure statement.

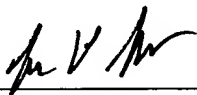
IV

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

Respectfully submitted,
THELEN REID & PRIEST LLP

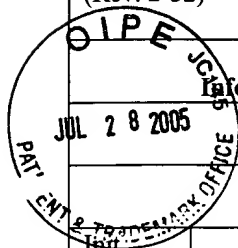
Dated: July 26, 2005



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Registration No. 42,125

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San Jose, CA 95164-0640
Telephone: (408) 292-5800
Fax: (408) 287-8040

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. CISCO-3287		Serial No. 09/802,410		
Information Disclosure Statement by Applicant						Applicant: Aravind Sitaraman et al.		
(Use several sheets if necessary)						Filed: March 9, 2001		
Init.		U.S. Patent Documents						
		Document No.	Date	Name	Class	Subclass	Filing Date	
	A	4,644,532	2/17/1987	George et al.				
	B	4,669,113	5/26/1987	Ash et al.				
	C	4,896,319	1/23/1990	Lidinsky et al.				
	D	4,995,074	2/19/1991	Goldman et al.				
	E	5,014,265	5/7/1991	Hahne et al.				
	F	5,115,427	5/19/1992	Johnson, Jr. et al.				
	G	5,159,592	10/27/1992	Perkins				
	H	5,239,537	8/24/1993	Sakauchi				
	I	5,265,245	11/23/1993	Nordstrom et al.				
	J	5,274,634	12/28/1993	Babiarz				
	K	5,347,511	9/13/1994	Gun				
	L	5,371,852	12/6/1994	Attanasio et al.				
	M	5,406,643	4/11/1995	Burke et al.				
	N	5,416,842	5/16/1995	Aziz				
	O	5,437,013	7/25/1995	Rubin et al.				
	P	5,461,624	10/24/1995	Mazzola				
	Q	5,469,556	11/21/1995	Clifton				
	R	5,510,777	4/23/1996	Pilc et al.				
	S	5,539,884	7/23/1996	Robrock, II				
	T	5,578,955	11/26/1996	Matsue et al.				
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes No	
	U	99/23852	5/14/1999	WO			X	
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
	V	Ascend Communications, "MultiVPN from Ascend Communications: Breaking Down the Barriers to VPNs", White Paper, 1998.						
	W	Fogarty et al., "Microsoft Tunnels Through the 'Net with New Protocol", WANs & Internetworking, Network World, pp. 17 and 20, March 18, 1996.						
	X	Mathieson et al., "High Speed Communications for Control Systems", IEEE, pp. 1826-1828, 1993.						
	Y	Rigney et al., "Remote Authentication Dial in User Service (Radius), Network Working Group, pp. 1-57, April 1997.						
Examiner					Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.								



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(Use several sheets if necessary)				Filed: March 9, 2001		Group: 2661		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
	Z	5,588,003	12/24/1996	Ohba et al.				
	AA	5,602,918	2/11/1997	Chen et al.				
	AB	5,604,803	2/18/1997	Aziz				
	AC	5,617,417	4/1/1997	Sathe et al.				
	AD	5,623,605	4/22/1997	Keshav et al.				
	AE	5,631,897	5/20/1997	Pacheco et al.				
	AF	5,642,515	6/24/1997	Jones et al.				
	AG	5,649,108	7/15/1997	Spiegel et al.				
	AH	5,655,077	8/5/1997	Jones et al.				
	AI	5,671,354	9/23/1997	Ito et al.				
	AJ	5,673,265	9/30/1997	Gupta et al.				
	AK	5,684,950	11/4/1997	Dare et al.				
	AL	5,689,566	11/18/1997	Nguyen				
	AM	5,708,812	1/13/1998	Van Dyke et al.				
	AN	5,715,399	2/3/1998	Bezos				
	AO	5,717,690	2/10/1998	Peirce, Jr. et al.				
	AP	5,740,171	4/14/1998	Mazzola et al.				
	AQ	5,740,176	4/14/1998	Gupta et al.				
	AR	5,740,371	4/14/1998	Wallis				
	AS	5,742,604	4/21/1998	Edsall et al.				
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
	AT	Mecklermedia Corporation, "Tunneling", printed from http://webopedia.internet.com/TERM/t/tunneling.html , 1998.						
	AU	Valencia et al, "Layer Two Tunneling Protocol "L2TP", PPP Working Group, pp. 1-93, May 1998.						
	AV	Xu et al., "Design and Evaluation of a High-Performance ATM Firewall Switch and its Applications", IEEE Journal on Selected Areas in Communications, Vol. 17, No. 6, pp. 1190-1200, June 1999.						
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U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
	AW	5,745,708	4/28/1998	Weppler et al.				
	AX	5,764,636	6/9/1998	Edsall				
	AY	5,768,519	6/16/1998	Swift et al.				
	AZ	5,796,732	8/18/1998	Mazzola et al.				
	BA	5,802,290	9/1/1998	Casselman				
	BB	5,815,665	9/29/1998	Teper et al.				
	BC	5,918,019	6/29/1999	Valencia				
	BD	5,944,824	8/31/1999	He				
	BE	5,949,755	9/7/1999	Uphadya et al.				
	BF	5,999,514	12/7/1999	Kato				
	BG	5,999,518	12/7/1999	Nattkemper				
	BH	6,011,910	1/4/2000	Chau et al.				
	BI	6,021,496	2/1/2000	Dutcher et al.				
	BJ	6,023,474	2/8/2000	Gardner				
	BK	6,044,402	3/28/2000	Jacobson et al.				
	BL	6,047,376	4/4/2000	Hosoe				
	BM	6,061,650	5/9/2000	Malkin et al.				
	BN	6,069,895	5/30/2000	Ayandeh				
	BO	6,081,508	6/27/2000	West et al.				
	BP	6,081,518	6/27/2000	Bowman-Amuah				
Foreign Documents								
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Init.		Document No.	Date	Country	Class	Subclass	Yes	No
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U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	BQ	6,084,892	7/4/2000	Benash et al.			
	BR	6,092,178	7/18/2000	Jindal et al.			
	BS	6,092,196	7/18/2000	Reiche			
	BT	6,094,437	7/25/2000	Lochndorf, Jr. et al.			
	BU	6,108,708	8/22/2000	Iwata			
	BV	6,115,468	9/5/2000	De Nicolo			
	BW	6,118,785	9/12/2000	Araujo et al.			
	BX	6,134,666	10/17/2000	De Nicolo			
	BY	6,154,775	11/28/2000	Coss et al.			
	BZ	6,212,561	4/3/2001	Sitaraman et al.			
	CA	6,236,655	5/22/2001	Caldara et al.			
	CB	6,252,878	6/26/2001	Locklear, Jr. et al.			
	CC	6,298,043	10/2/2001	Mauger et al.			
	CD	6,308,213	10/23/2001	Valencia			
	CE	6,396,838	5/28/2002	Palnati			
	CF	6,400,716	6/4/2002	Munakata et al.			
	CG	6,408,336	6/18/2002	Schneider et al.			
	CH	6,415,313	7/2/2002	Yamada et al.			
	CI	6,430,152	8/6/2002	Jones et al.			
	CJ	6,438,612	8/20/2002	Ylonen et al.			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
Examiner					Date Considered		
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(Use several sheets if necessary)						Filed: March 9, 2001		Group: 2661		
U.S. Patent Documents										
Init.		Document No.	Date	Name	Class	Subclass	Filing Date			
	CK	6,446,200	9/3/2002	Ball et al.						
	CL	6,456,623	9/24/2002	Kobayasi et al.						
	CM	6,463,475	10/8/2002	Calhoun						
	CN	6,665,305	12/16/2003	Weismann						
	CO	6,654,792	11/25/2003	Verma et al.						
	CP	6,651,096	11/18/2003	Gai et al.						
	CQ	6,615,358	9/2/2003	Dowd et al.						
	CR	6,785,228	8/31/2004	Vandette et al.						
	CS	6,597,689	7/22/2003	Chiu et al.						
	CT	6,542,919	4/1/2003	Wendorf et al.						
	CU	6,466,976	10/15/2002	Alles et al.						
	CV	6,498,845	12/24/2002	Martz et al.						
	CW	6,609,153	8/19/2003	Salkewicz						
Foreign Documents										
Init.		Document No.	Date	Country	Class	Subclass	Translation	Yes	No	
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